**FIG. 1**

2

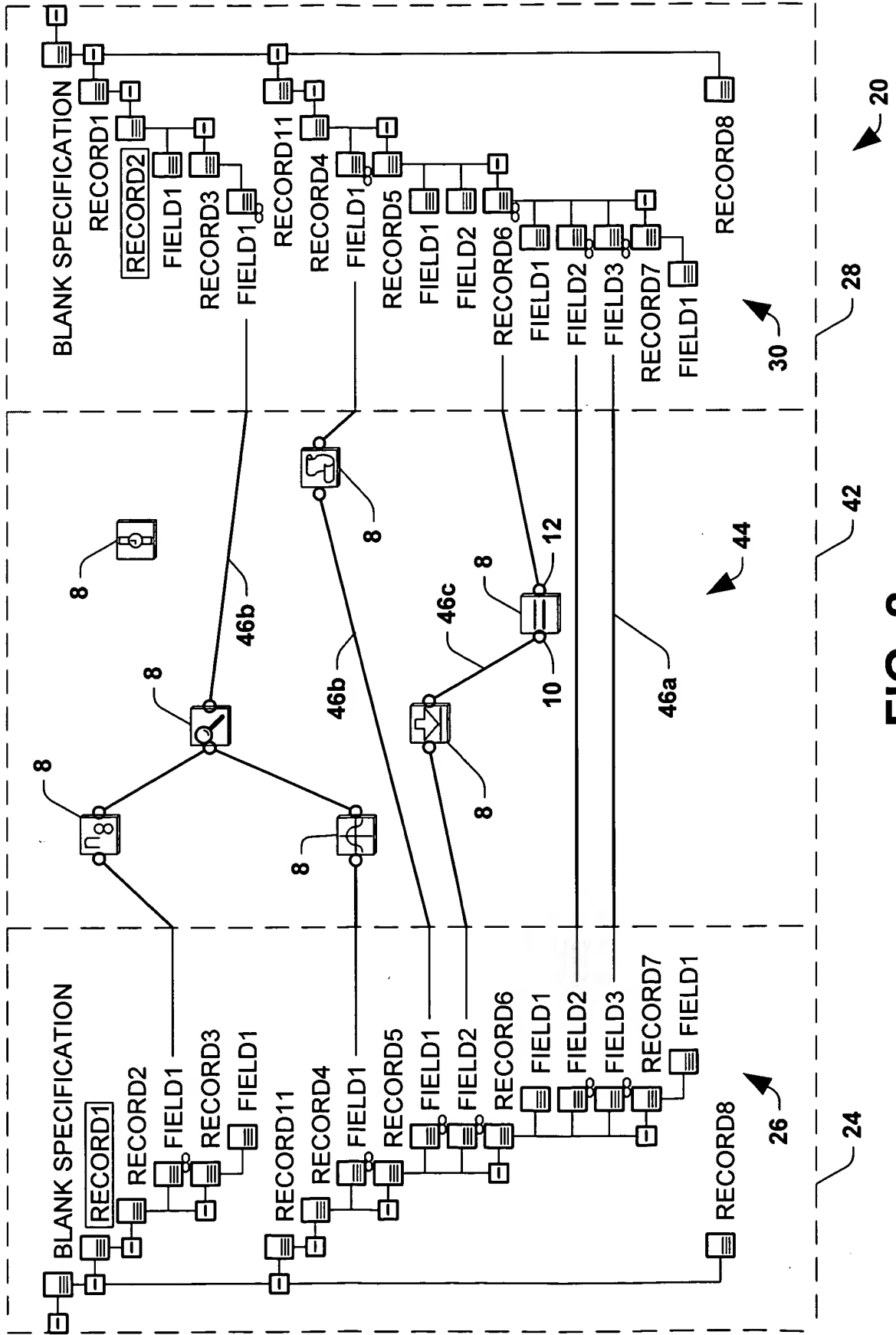


FIG. 2

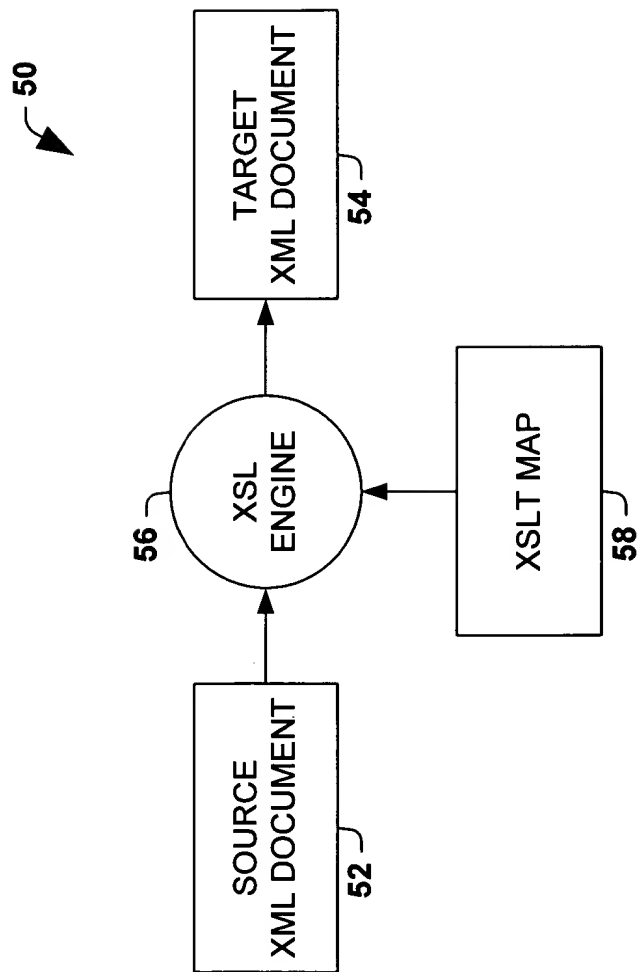
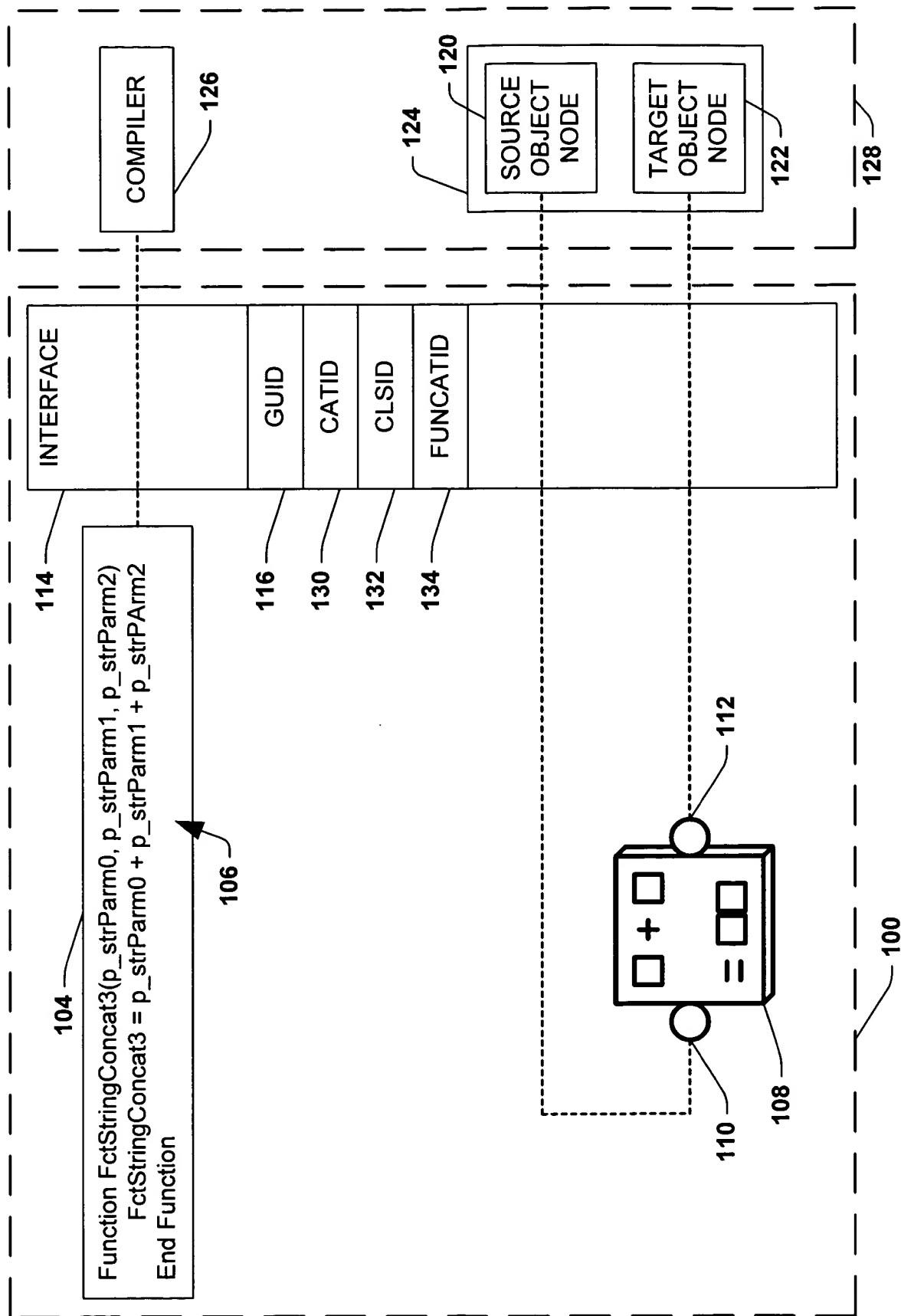


FIG. 3

Country	Year	Population (millions)	Urban population (millions)	Urban population (%)	Population density (per sq km)	Urban population density (per sq km)
Algeria	1980	11.0	4.0	36.4	10.0	10.0
Algeria	1985	11.0	4.0	36.4	10.0	10.0
Algeria	1990	11.0	4.0	36.4	10.0	10.0
Algeria	1995	11.0	4.0	36.4	10.0	10.0
Algeria	2000	11.0	4.0	36.4	10.0	10.0
Algeria	2005	11.0	4.0	36.4	10.0	10.0
Algeria	2010	11.0	4.0	36.4	10.0	10.0
Algeria	2015	11.0	4.0	36.4	10.0	10.0
Algeria	2020	11.0	4.0	36.4	10.0	10.0
Algeria	2025	11.0	4.0	36.4	10.0	10.0
Algeria	2030	11.0	4.0	36.4	10.0	10.0
Algeria	2035	11.0	4.0	36.4	10.0	10.0
Algeria	2040	11.0	4.0	36.4	10.0	10.0
Algeria	2045	11.0	4.0	36.4	10.0	10.0
Algeria	2050	11.0	4.0	36.4	10.0	10.0
Algeria	2055	11.0	4.0	36.4	10.0	10.0
Algeria	2060	11.0	4.0	36.4	10.0	10.0
Algeria	2065	11.0	4.0	36.4	10.0	10.0
Algeria	2070	11.0	4.0	36.4	10.0	10.0
Algeria	2075	11.0	4.0	36.4	10.0	10.0
Algeria	2080	11.0	4.0	36.4	10.0	10.0
Algeria	2085	11.0	4.0	36.4	10.0	10.0
Algeria	2090	11.0	4.0	36.4	10.0	10.0
Algeria	2095	11.0	4.0	36.4	10.0	10.0
Algeria	2100	11.0	4.0	36.4	10.0	10.0
Algeria	2105	11.0	4.0	36.4	10.0	10.0
Algeria	2110	11.0	4.0	36.4	10.0	10.0
Algeria	2115	11.0	4.0	36.4	10.0	10.0
Algeria	2120	11.0	4.0	36.4	10.0	10.0
Algeria	2125	11.0	4.0	36.4	10.0	10.0
Algeria	2130	11.0	4.0	36.4	10.0	10.0
Algeria	2135	11.0	4.0	36.4	10.0	10.0
Algeria	2140	11.0	4.0	36.4	10.0	10.0
Algeria	2145	11.0	4.0	36.4	10.0	10.0
Algeria	2150	11.0	4.0	36.4	10.0	10.0
Algeria	2155	11.0	4.0	36.4	10.0	10.0
Algeria	2160	11.0	4.0	36.4	10.0	10.0
Algeria	2165	11.0	4.0	36.4	10.0	10.0
Algeria	2170	11.0	4.0	36.4	10.0	10.0
Algeria	2175	11.0	4.0	36.4	10.0	10.0
Algeria	2180	11.0	4.0	36.4	10.0	10.0
Algeria	2185	11.0	4.0	36.4	10.0	10.0
Algeria	2190	11.0	4.0	36.4	10.0	10.0
Algeria	2195	11.0	4.0	36.4	10.0	10.0
Algeria	2200	11.0	4.0	36.4	10.0	10.0
Algeria	2205	11.0	4.0	36.4	10.0	10.0
Algeria	2210	11.0	4.0	36.4	10.0	10.0
Algeria	2215	11.0	4.0	36.4	10.0	10.0
Algeria	2220	11.0	4.0	36.4	10.0	10.0
Algeria	2225	11.0	4.0	36.4	10.0	10.0
Algeria	2230	11.0	4.0	36.4	10.0	10.0
Algeria	2235	11.0	4.0	36.4	10.0	10.0
Algeria	2240	11.0	4.0	36.4	10.0	10.0
Algeria	2245	11.0</				



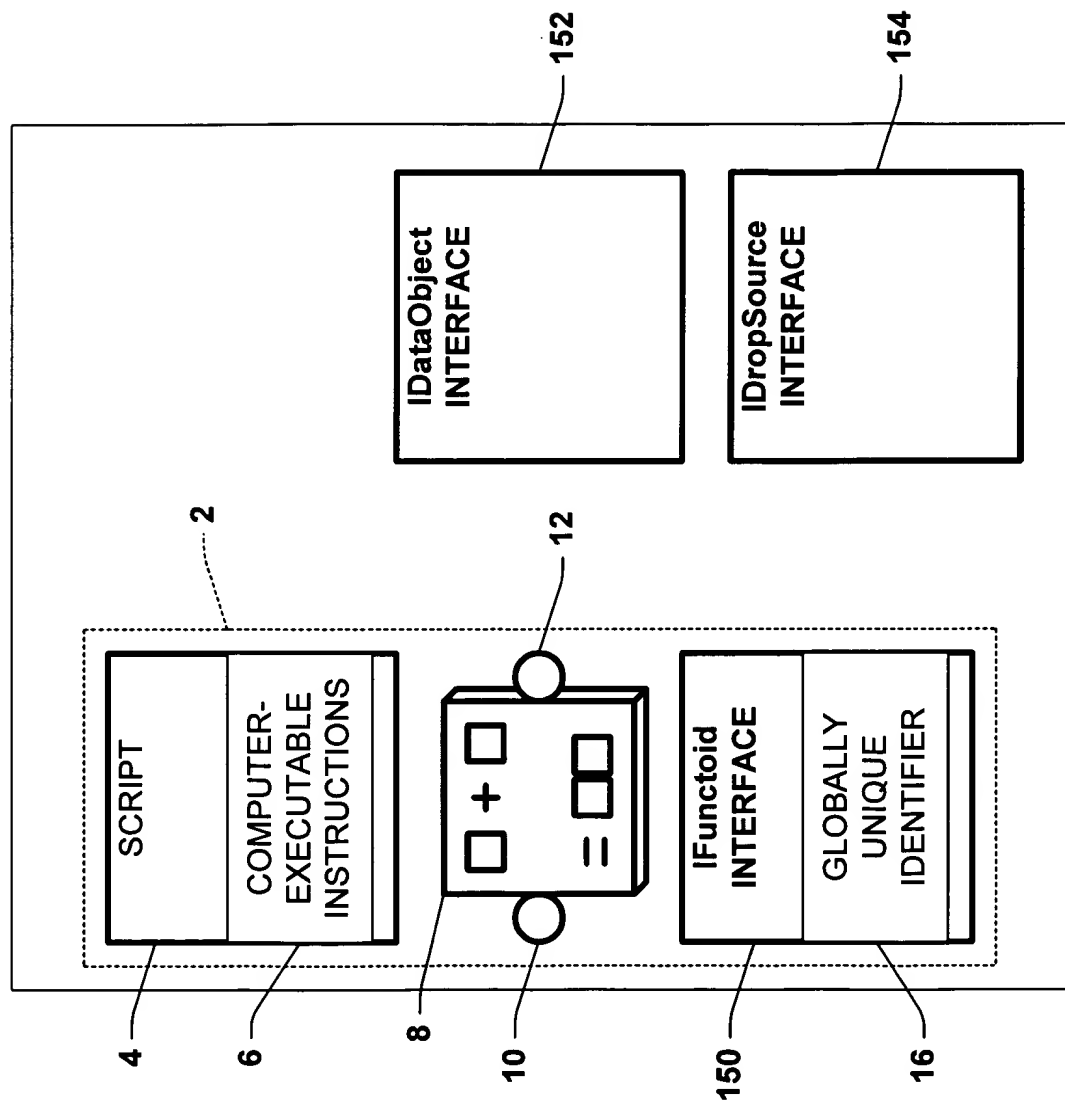


FIG. 4B

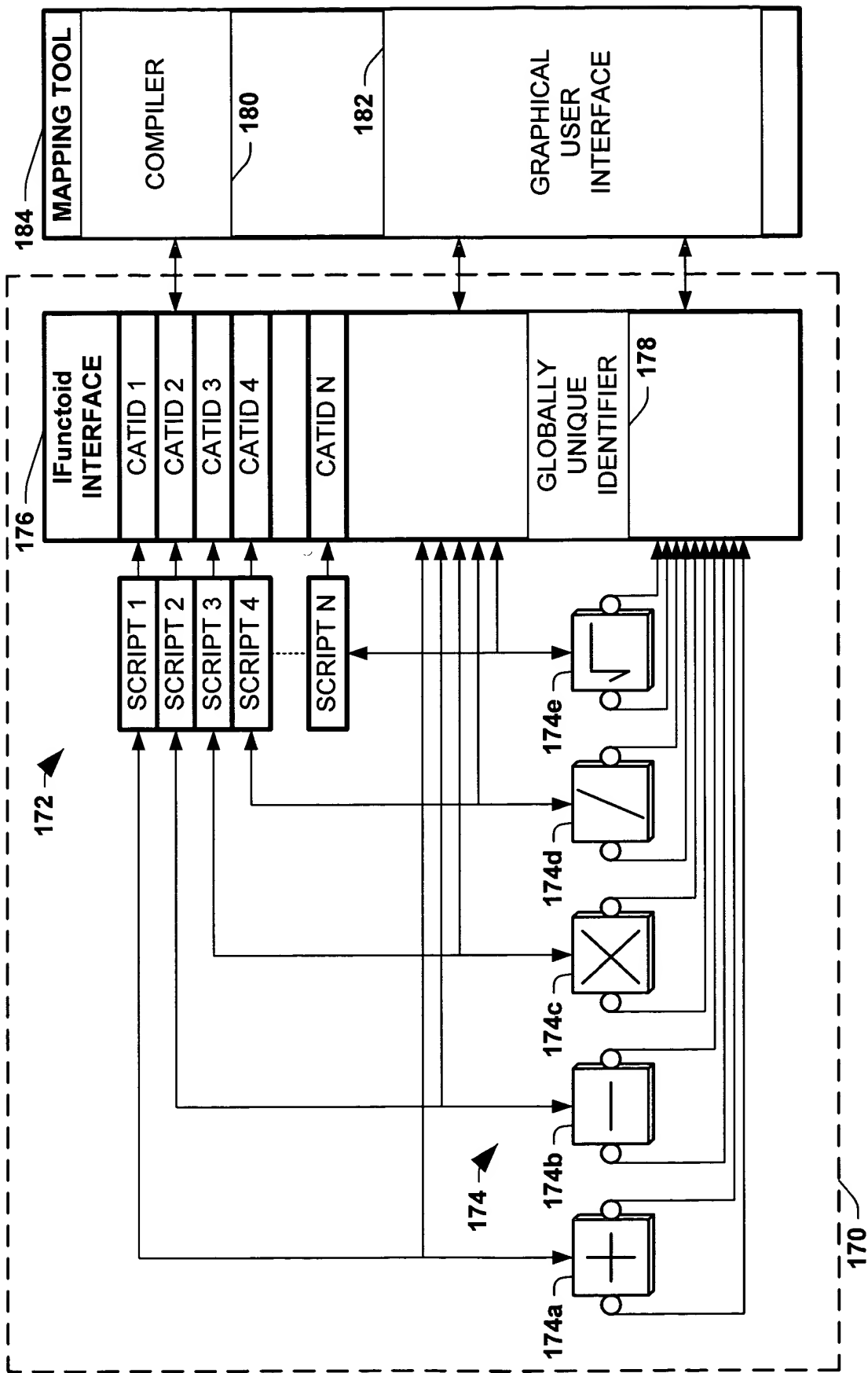


FIG. 4C

Year	Country	Population (millions)	Urban population (millions)	Urban population (%)	Population density (per sq km)	Urban population density (per sq km)
1960	China	659.0	120.0	18.2	150	1,200
1970	China	705.0	140.0	19.9	160	1,400
1980	China	753.0	160.0	21.3	170	1,600
1990	China	1,119.0	220.0	19.7	120	1,200
2000	China	1,226.0	290.0	23.7	140	1,400
2010	China	1,370.0	350.0	25.5	150	1,500
2020	China	1,420.0	380.0	26.7	150	1,500
2030	China	1,450.0	400.0	27.6	150	1,500
2040	China	1,460.0	410.0	28.1	150	1,500
2050	China	1,460.0	410.0	28.1	150	1,500
2060	China	1,450.0	400.0	27.6	150	1,500
2070	China	1,430.0	380.0	26.6	140	1,400
2080	China	1,400.0	350.0	25.0	130	1,300
2090	China	1,360.0	310.0	22.8	120	1,200
2100	China	1,310.0	270.0	20.6	110	1,100

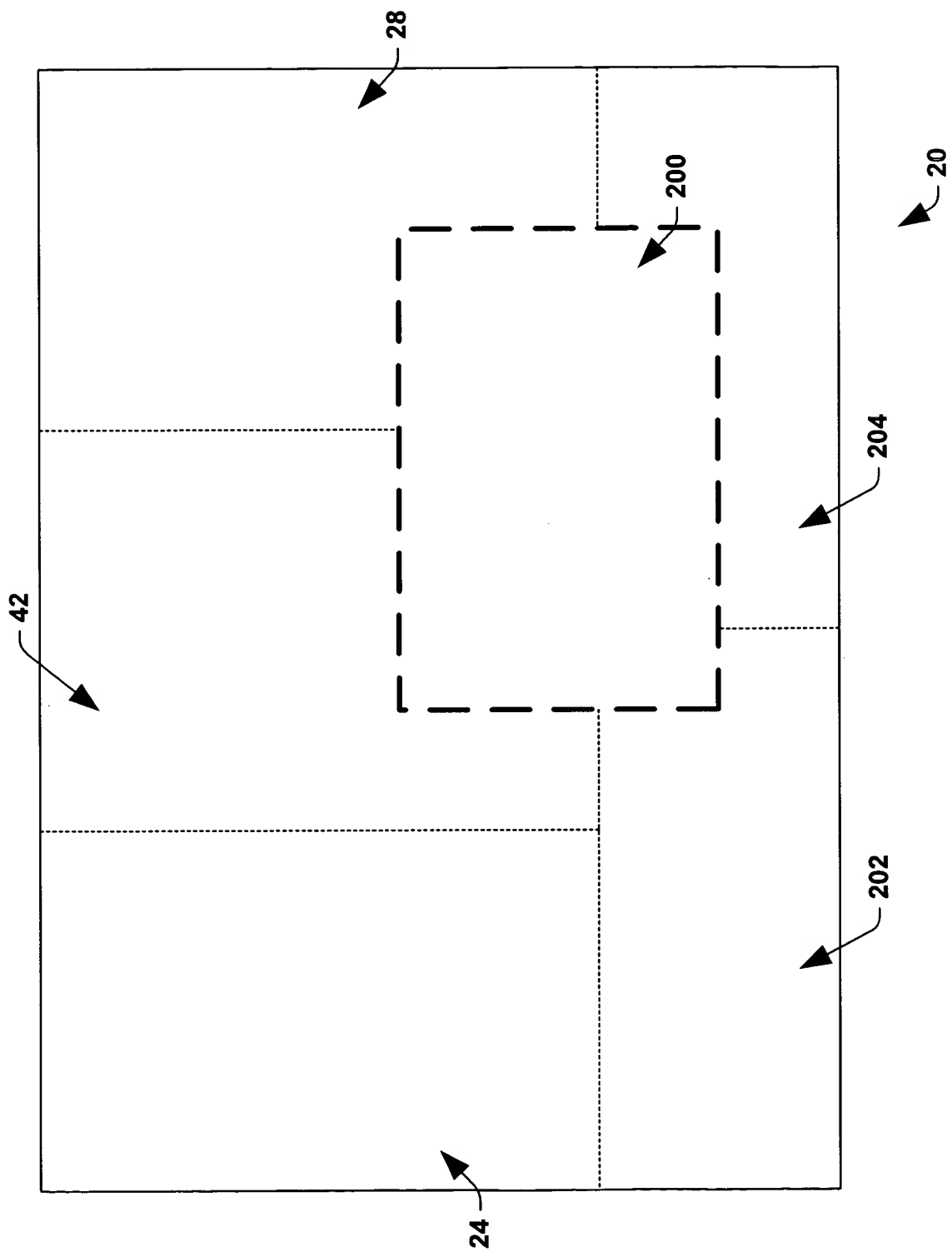


FIG. 5A

Funcoid Palette

212



210

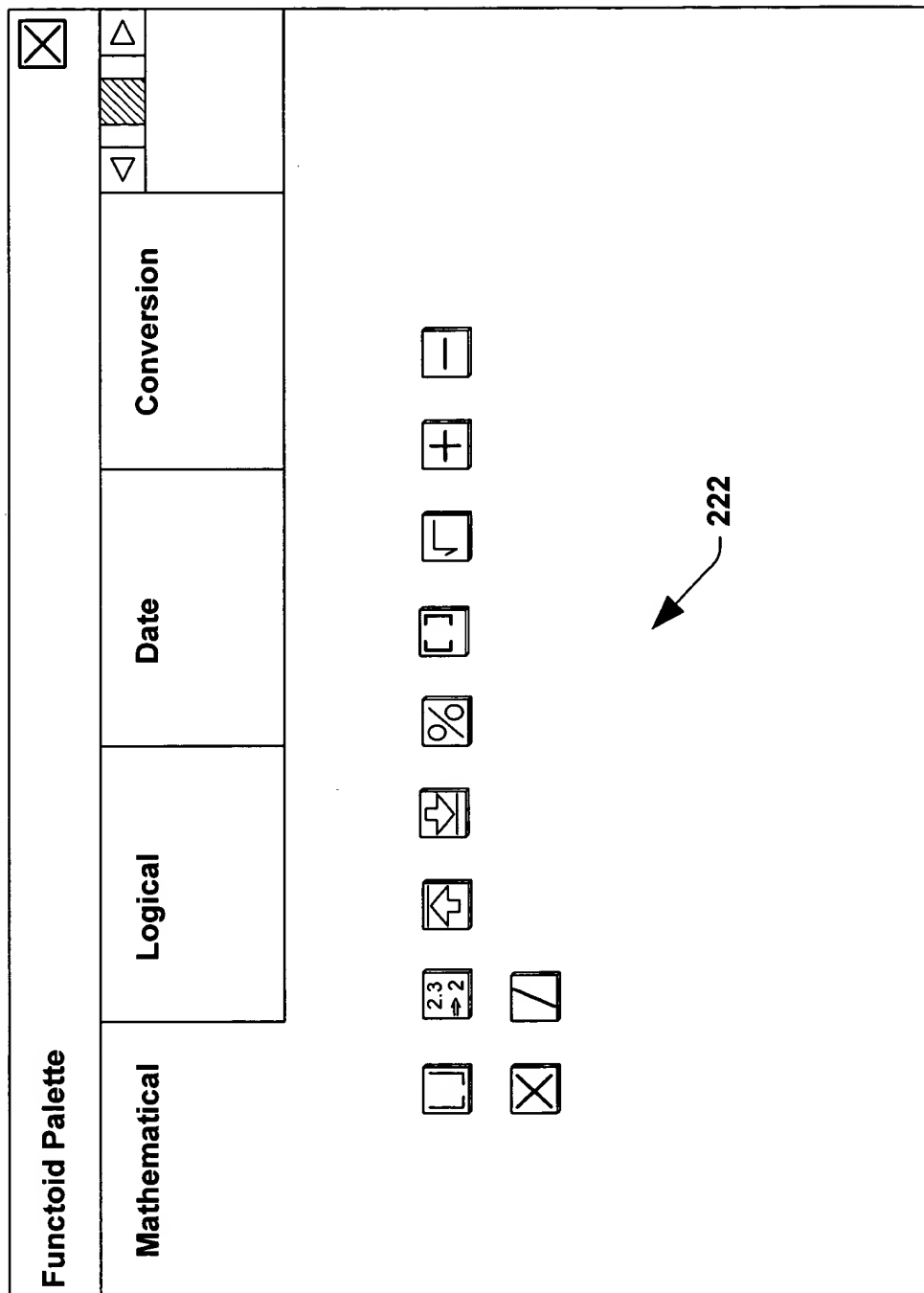


FIG. 5C

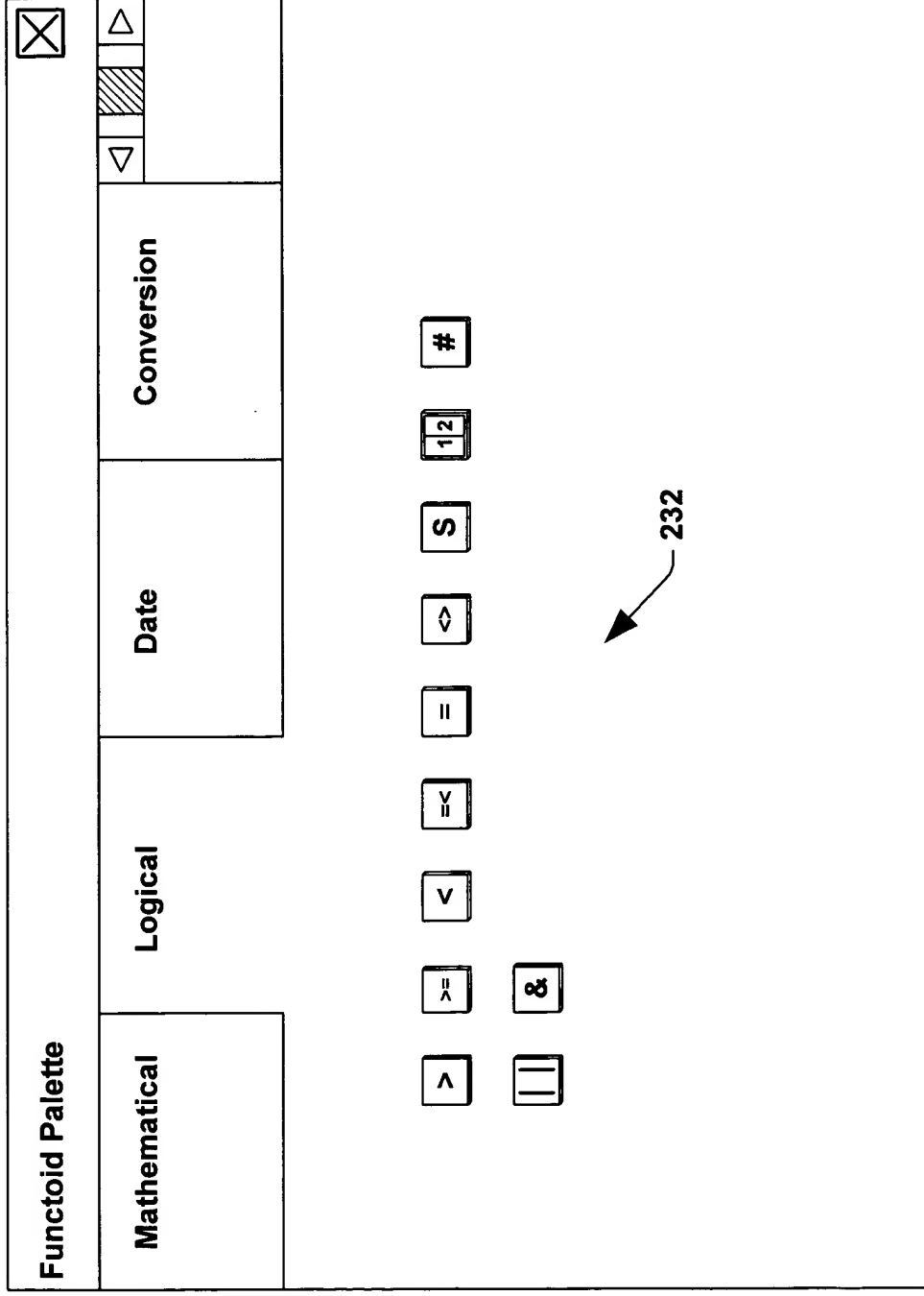


FIG. 5D

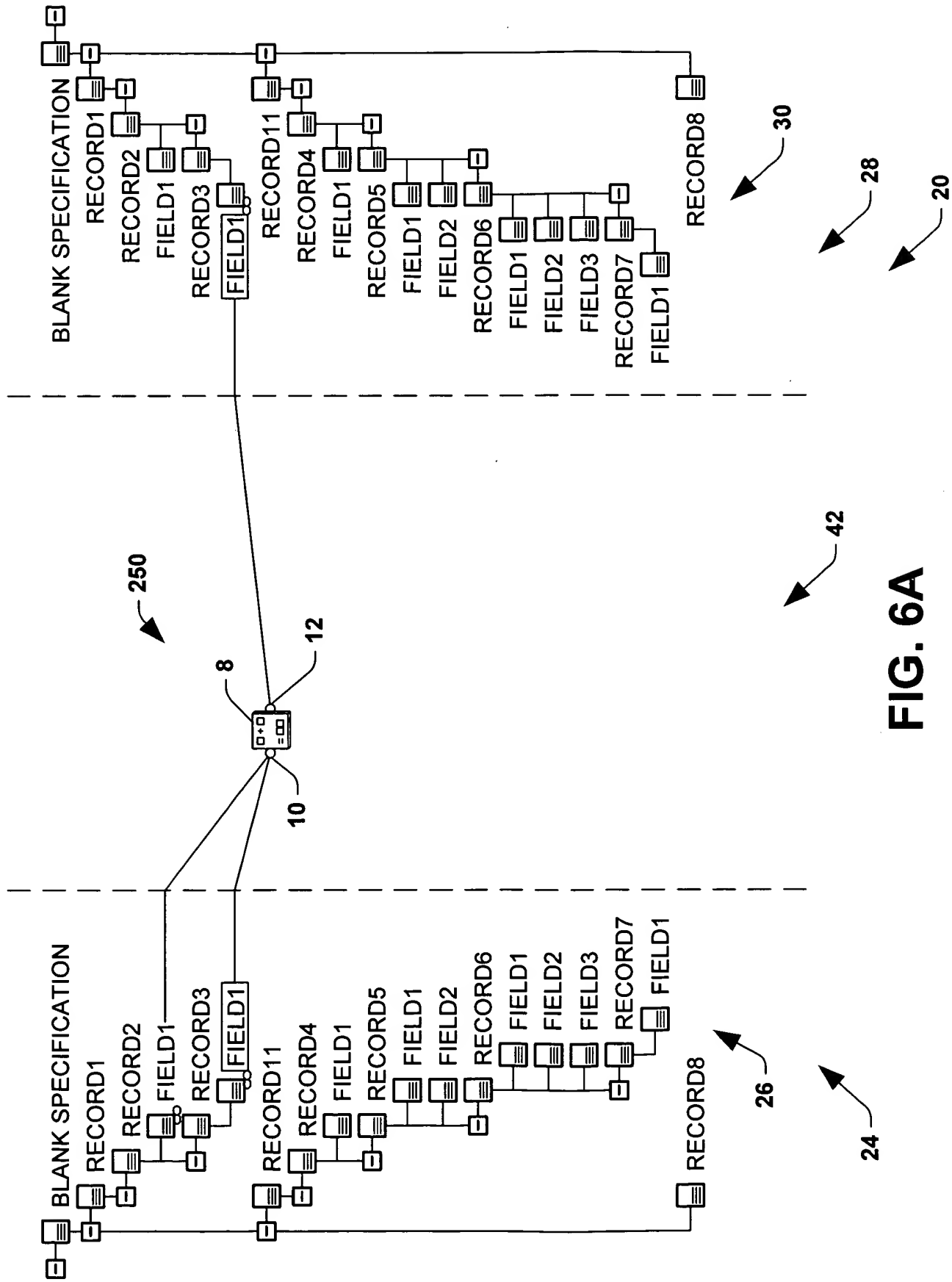
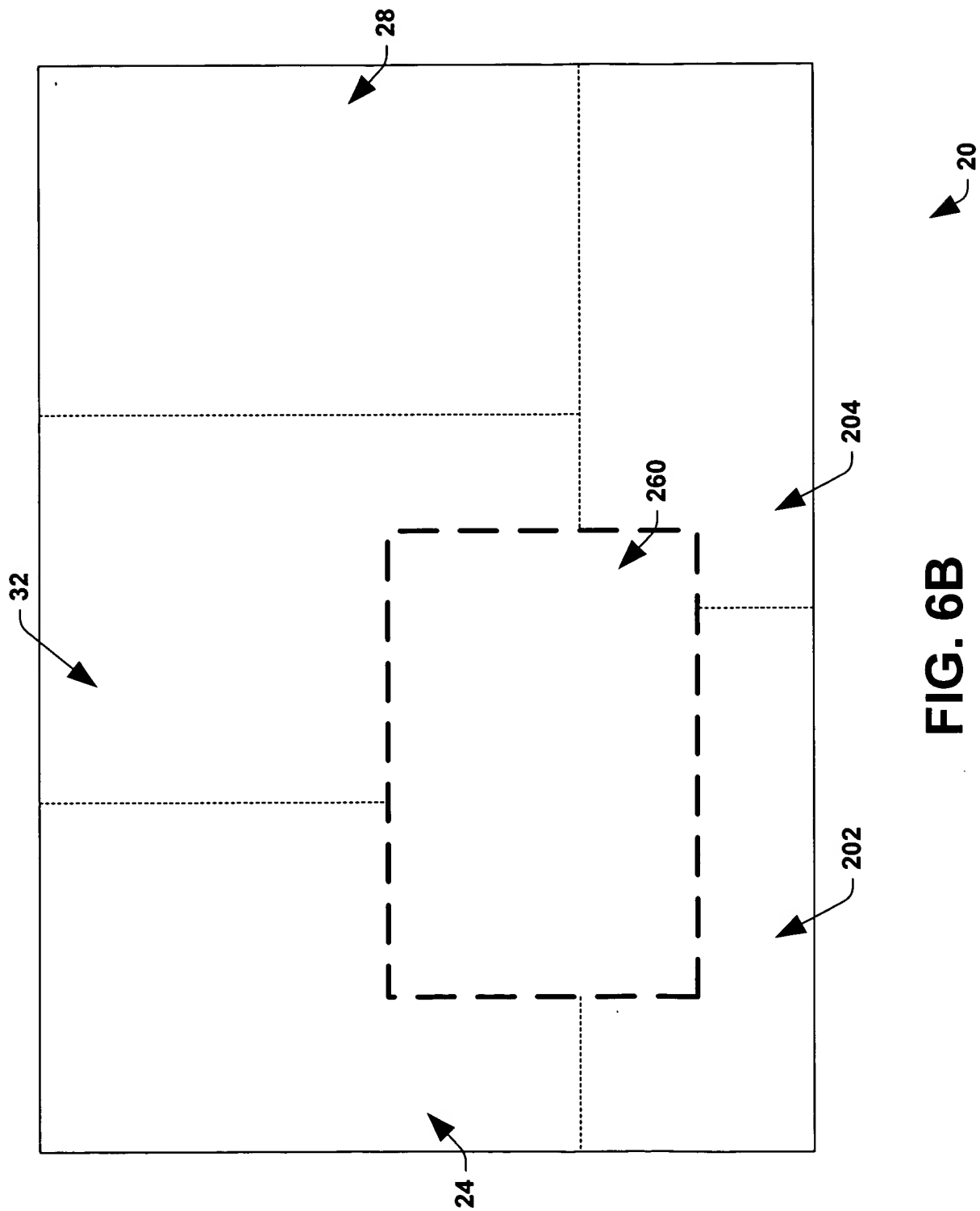


FIG. 6B



Functor Properties	
<div> <div>?</div> <div>✕</div> </div>	
<div>General</div>	<div>Script</div>
<div>Input Parameters</div> <div> <div> <div> </div> <div>/BLANKSPECIFICATION/RECORD1/RECORD2/@FIELD1</div> </div> <div> <div> </div> <div>/BLANKSPECIFICATION/RECORD1/RECORD2/RECORD3/@FIELD1</div> </div> <div> <div>C</div> <div>Hello World</div> </div> </div> <div> <div>This functor must have at least 1 parameter. There is no maximum limit on the number of input parameters.</div> <div> <div>OK</div> <div>Cancel</div> </div> </div>	

FIG. 6C

FIG. 7A is a schematic diagram of a data processing system 20. The system 20 includes a first data source 24, a second data source 28, and a data processing unit 42. The first data source 24 is connected to the data processing unit 42 via a first interface 272. The second data source 28 is connected to the data processing unit 42 via a second interface 274. The data processing unit 42 includes a first data path 270 and a second data path 272. The first data path 270 is connected to the first interface 272 and the second interface 274. The second data path 272 is connected to the first data path 270 and the first interface 272. The data processing unit 42 also includes a first data store 275a, a second data store 275b, a third data store 275c, and a fourth data store 275d. The first data store 275a is connected to the first data path 270 and the second data path 272. The second data store 275b is connected to the first data path 270 and the second data path 272. The third data store 275c is connected to the first data path 270 and the second data path 272. The fourth data store 275d is connected to the first data path 270 and the second data path 272.

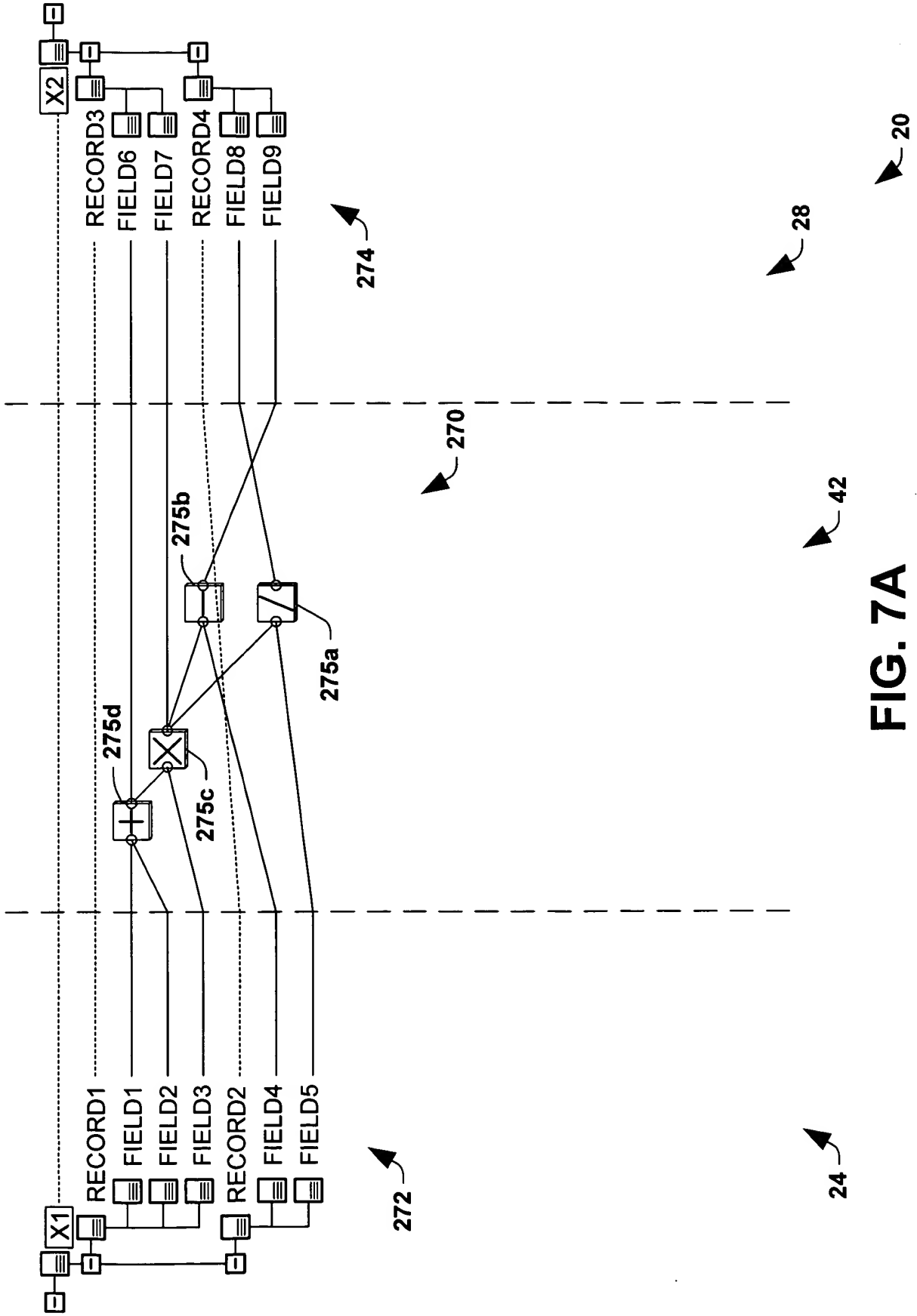
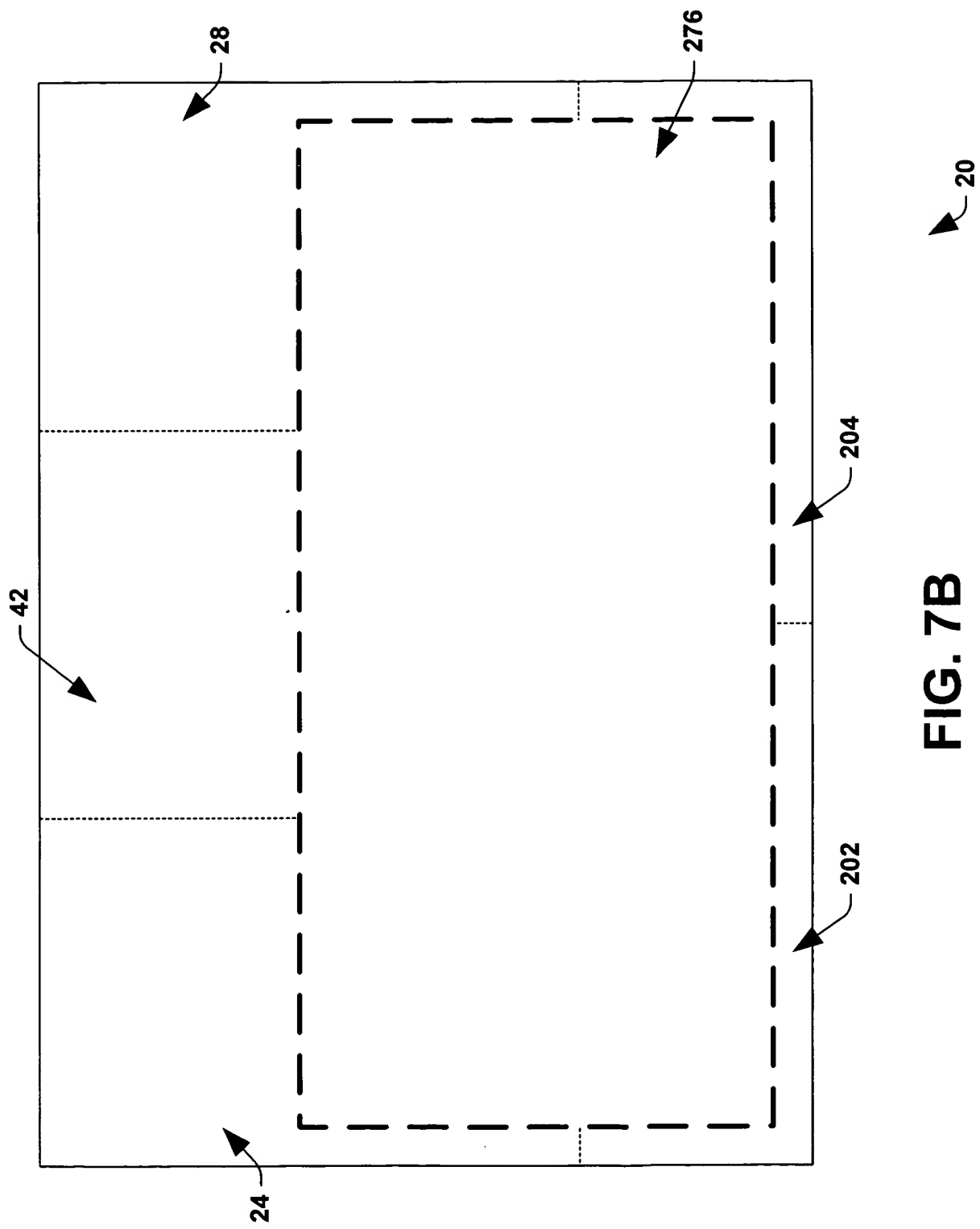


FIG. 7A



Properties	Values	Output
	<pre> <xsl:template match='X1'> <X2> <xsl:for-each select='Record1'> <Record3> <xsl:variable name='var:v1' select='user:FctMathAdd2(string(@Field1), string(@Field2))' /> <xsl:attribute name='Field6'><xsl:value-of select='\$var:v1' /></xsl:attribute> <xsl:variable name='var:v2' select='user:FctMathMultiply2(string(@Field3), string(\$var:v1))' /> <xsl:attribute name='Field7'><xsl:value-of select='\$var:v2' /></xsl:attribute> </Record3> </xsl:for-each> <xsl:for-each select='Record2'> <Record4> <xsl:variable name='var:v3' select='user:FctMathAdd2(string(ancestor::* (1)/Record1/@Field1), string(<xsl:variable name='var:v4' select='user:FctMathMultiply2(string(ancestor::* (1)/Record1/@Field3), str <xsl:variable name='var:v5' select='user:FctMathDivide(string(\$var:v4), string(@Field5))' /> <xsl:attribute name='Field8'><xsl:value-of select='\$var:v5' /></xsl:attribute> <xsl:variable name='var:v6' select='user:FctMathSubtract2(string(\$var:v4), string(@Field4))' /> <xsl:attribute name='Field9'><xsl:value-of select='\$var:v6' /></xsl:attribute> </Record4> </xsl:for-each> </pre>	<p>278</p> <p>280</p>

FIG. 7C

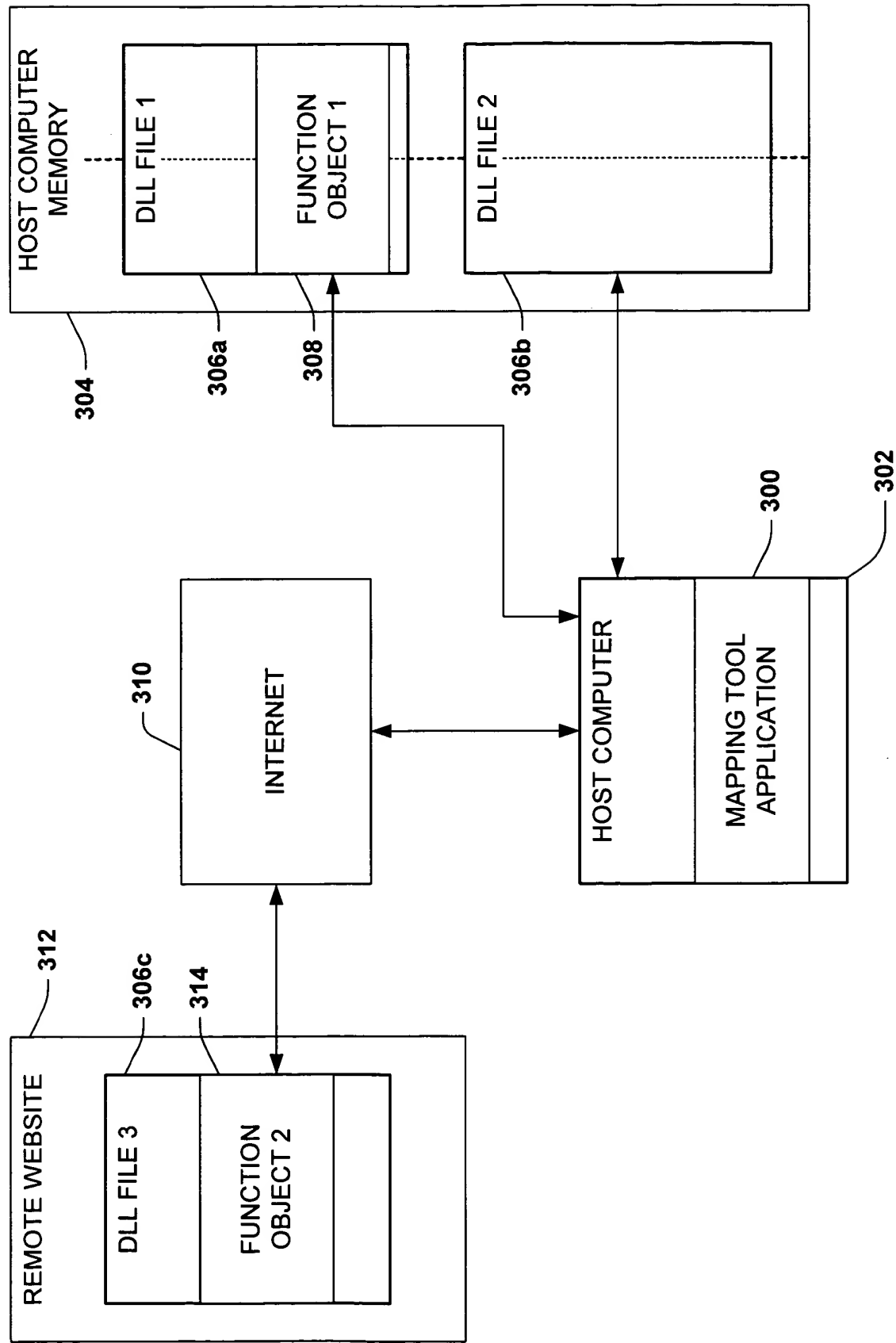


FIG. 8

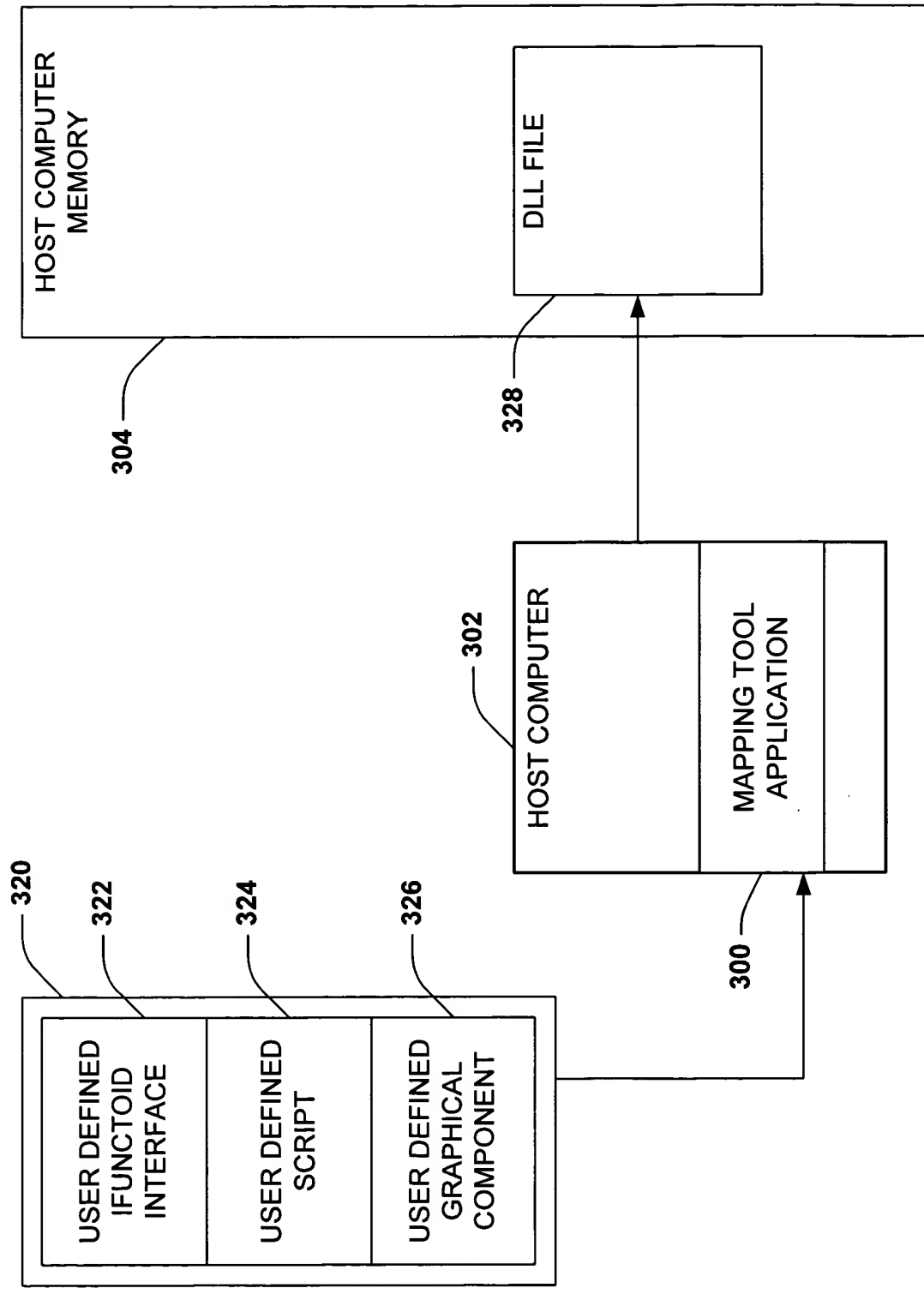


FIG. 9A

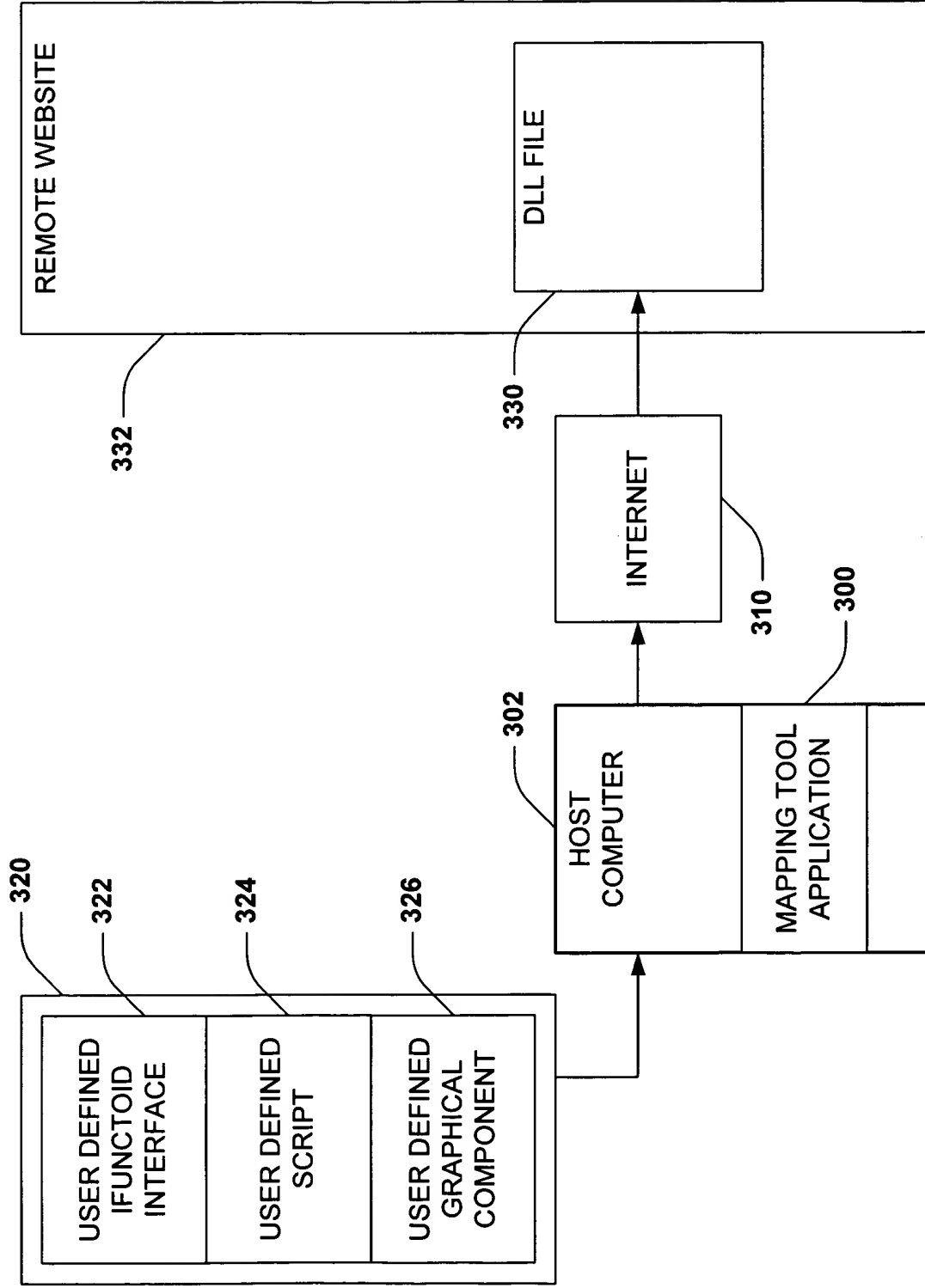


FIG. 9B

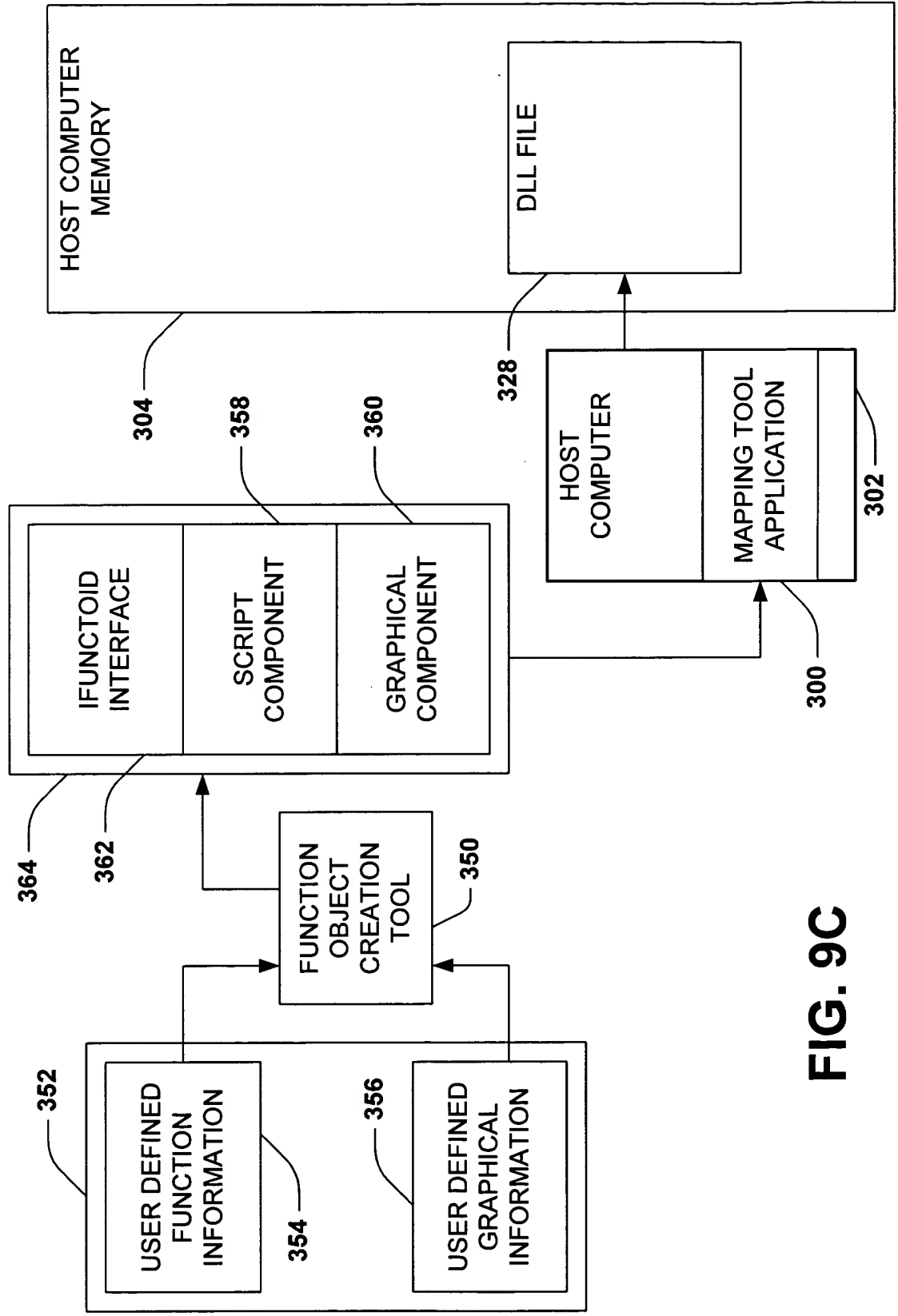
[illegible]

FIG. 9C

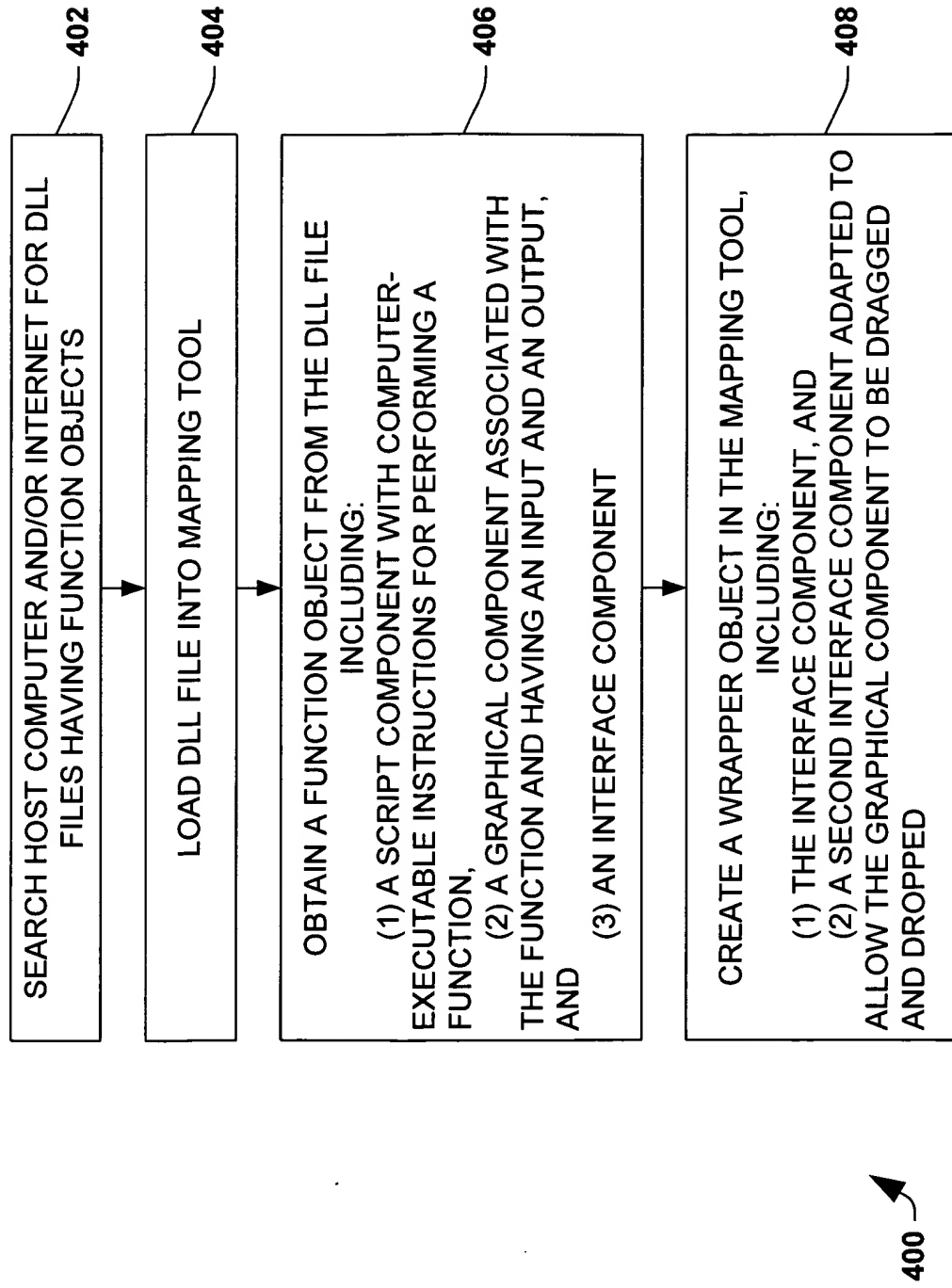
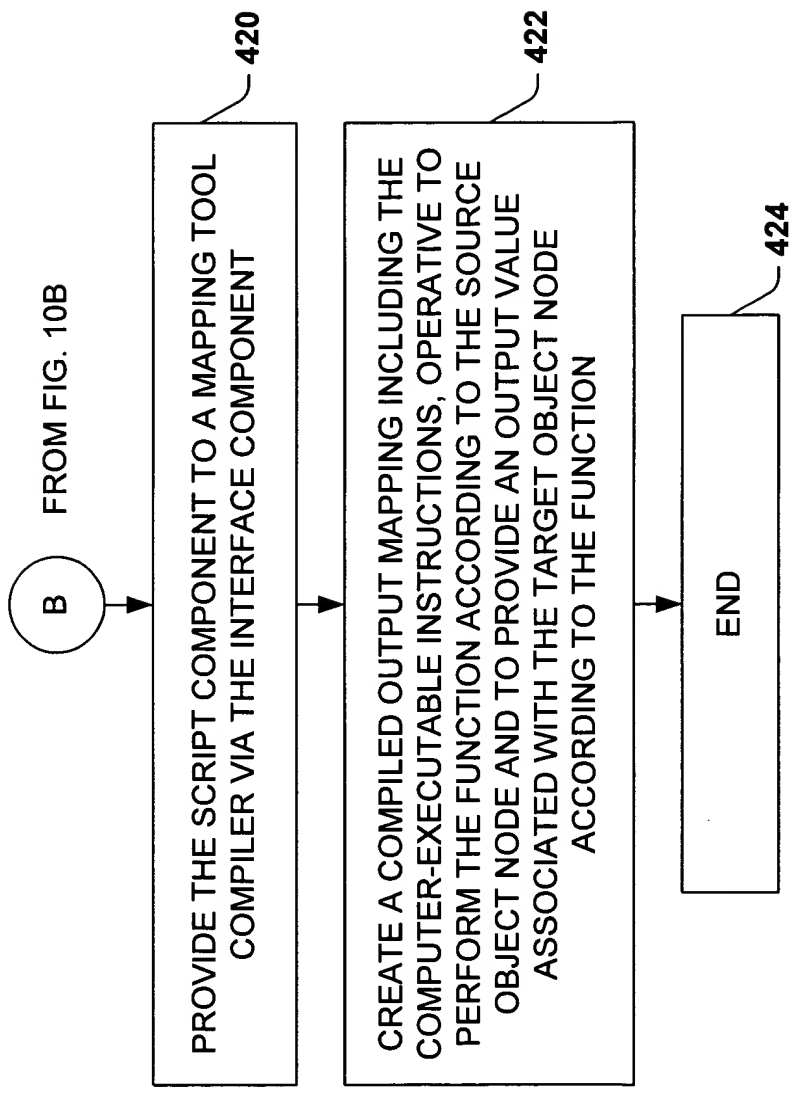


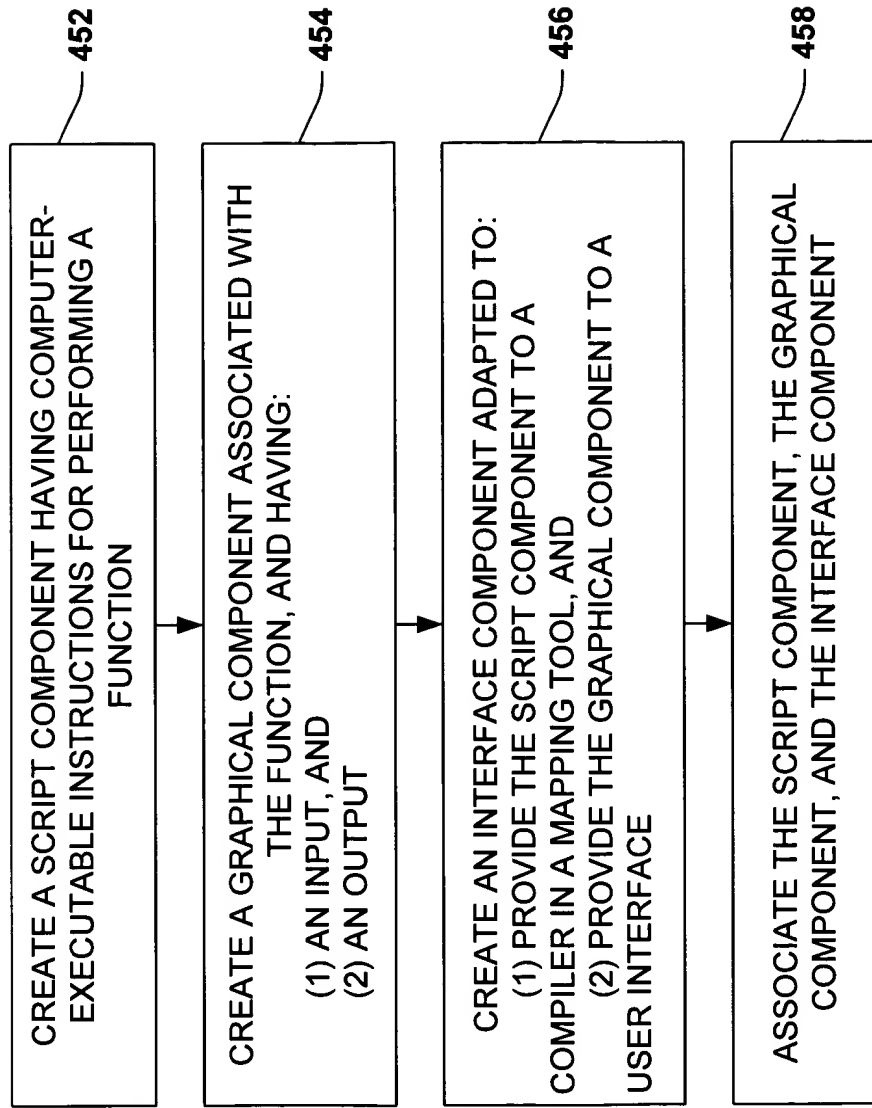
FIG. 10A



400

FIG. 10C

450



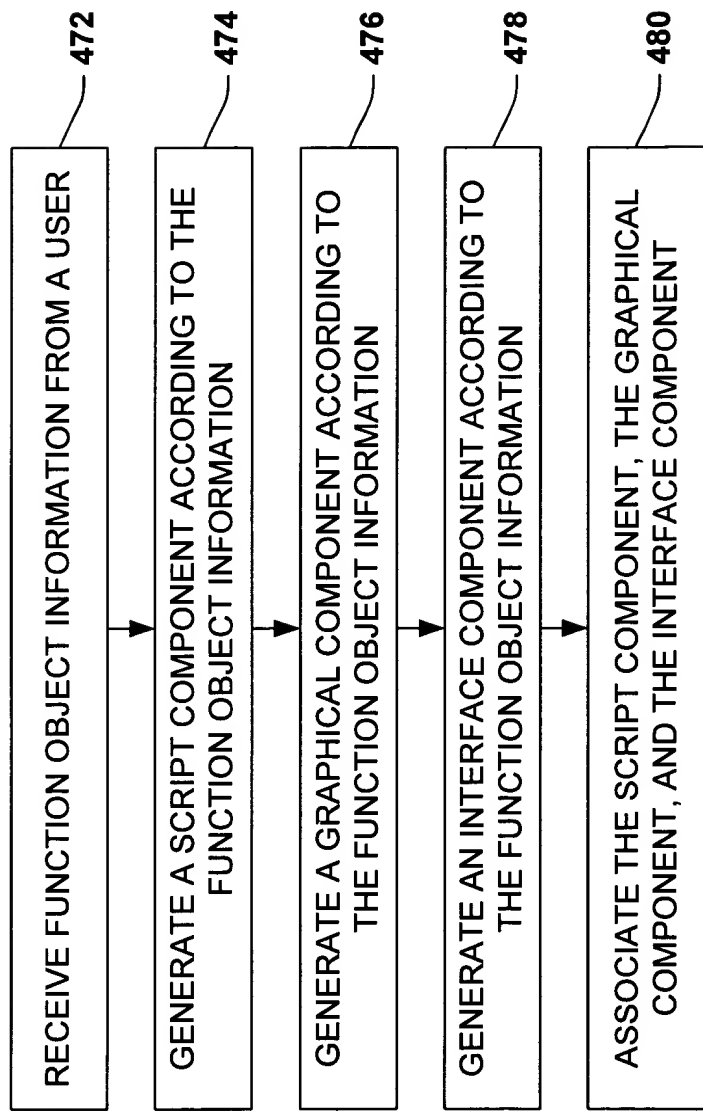


FIG. 12

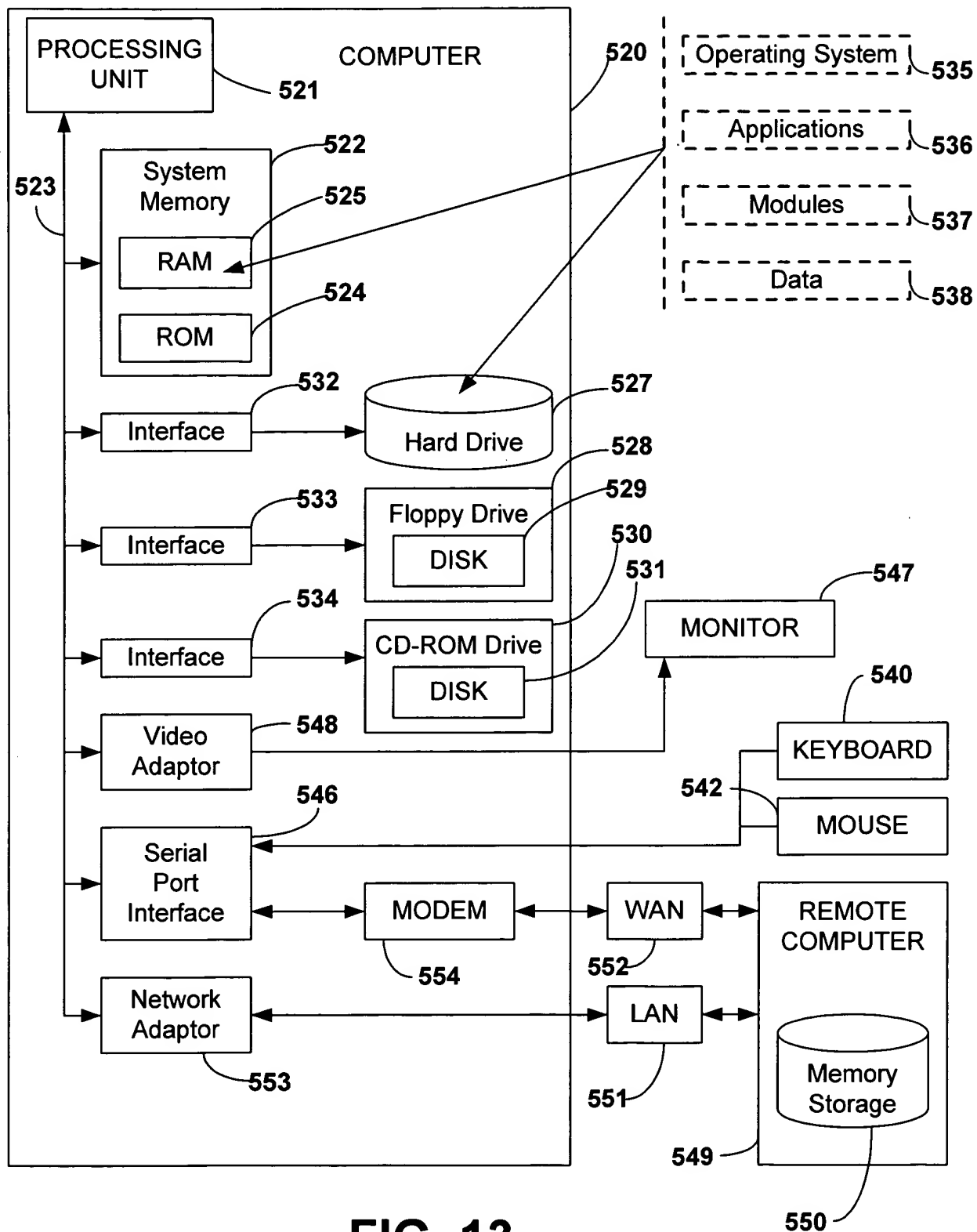


FIG. 13